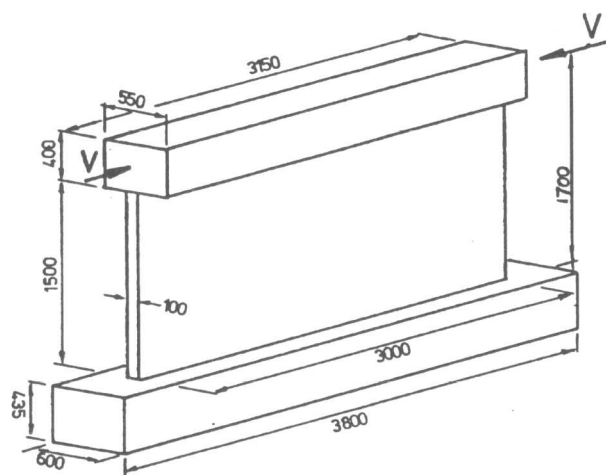
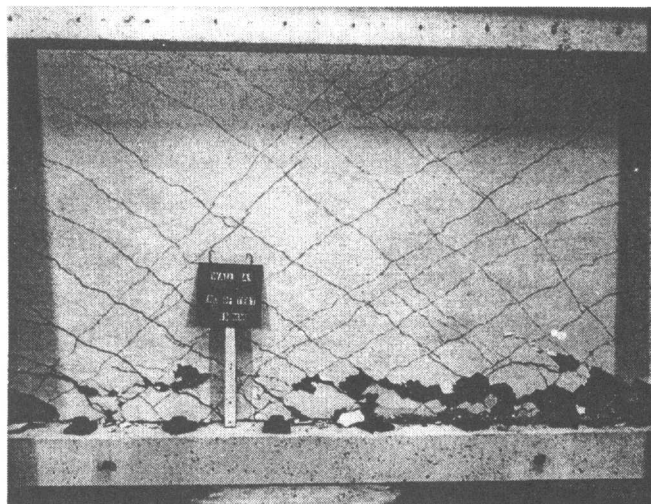


DAMAGE PATTERNS AND HYSTERETIC RESPONSE

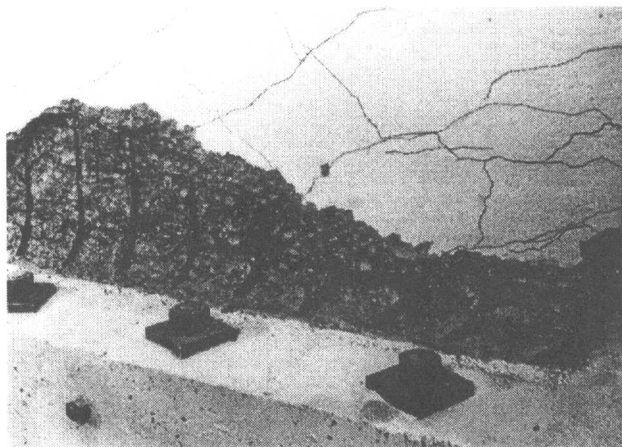
System:	Reinforced Concrete	<div style="border: 1px solid black; padding: 5px; display: inline-block;">RC1D</div> Example 2 of 3
Component Type:	Isolated Wall or Stronger Wall Pier	
Predominant Behavior Mode:	Flexure/Sliding Shear	
Secondary Behavior Mode:	—	
Reference:	Paulay, Priestley, and Synge (1982))	
Specimen:	Wall 1	



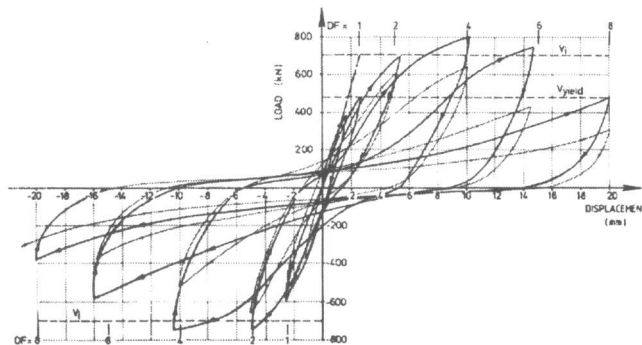
Overall dimensions of typical test units.



Splitting and Crushing of Concrete at Base of Wall



Compression Toe



Load-deflection relationship for wall 1.

DAMAGE PATTERNS AND HYSTERETIC RESPONSE

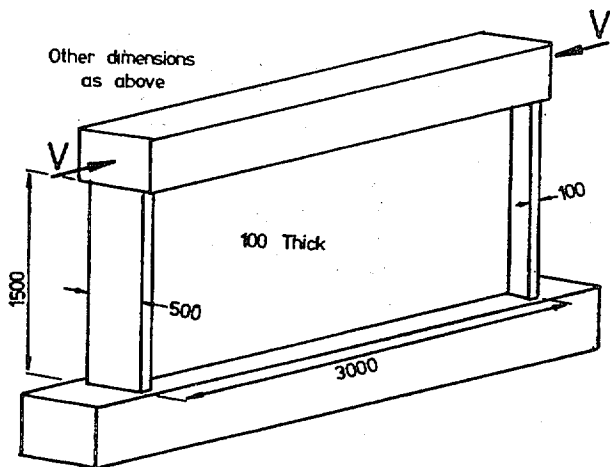
System: Reinforced Concrete
 Component Type: Isolated Wall or Stronger Wall Pier
 Predominant Behavior Mode: Flexure/Sliding Shear
 Secondary Behavior Mode: —

RC1D

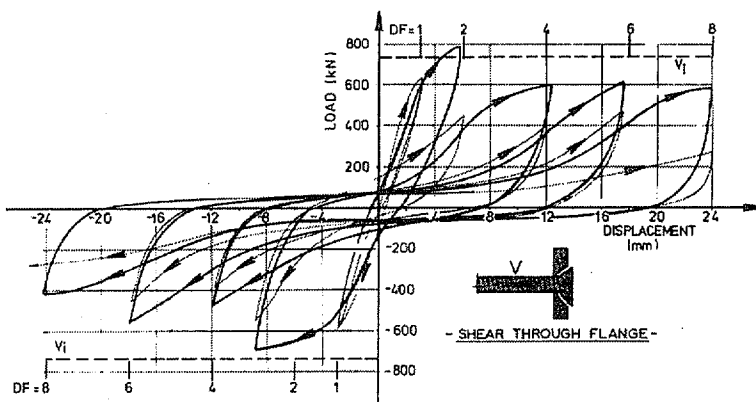
Example 3 of 3

Reference: Paulay, Priestley, and Syngé (1982))

Specimen: Wall 3



Overall Dimensions for Walls 3 and 4.



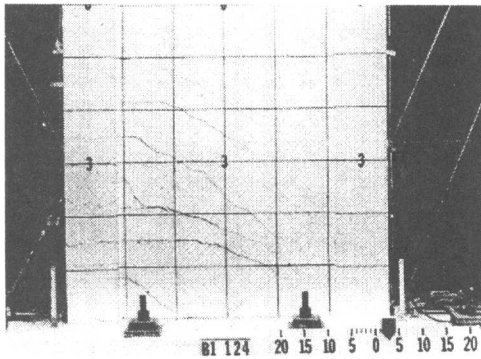
Load-Deflection Relationship for Flanged Wall

DAMAGE PATTERNS AND HYSTERETIC RESPONSE

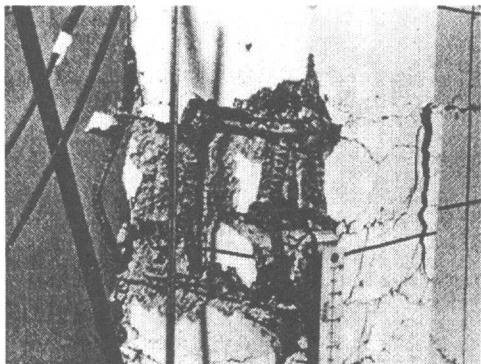
System: Reinforced Concrete
 Component Type: Isolated Wall or Stronger Wall Pier
 Predominant Behavior Mode: Flexure/Boundary Compression
 Secondary Behavior Mode: —

RC1E Example 1 of 1

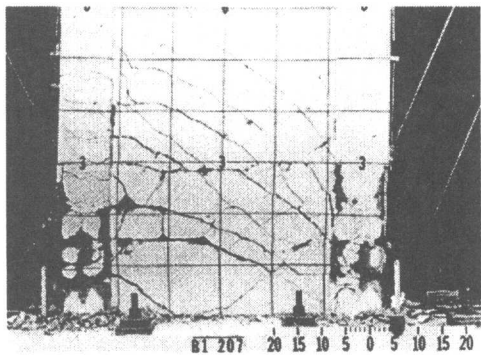
Reference: Corley, Fioralo, Oesterle (1981), Oesterle et al. (1976), Oesterle et al. (1979)
 Specimen: B1



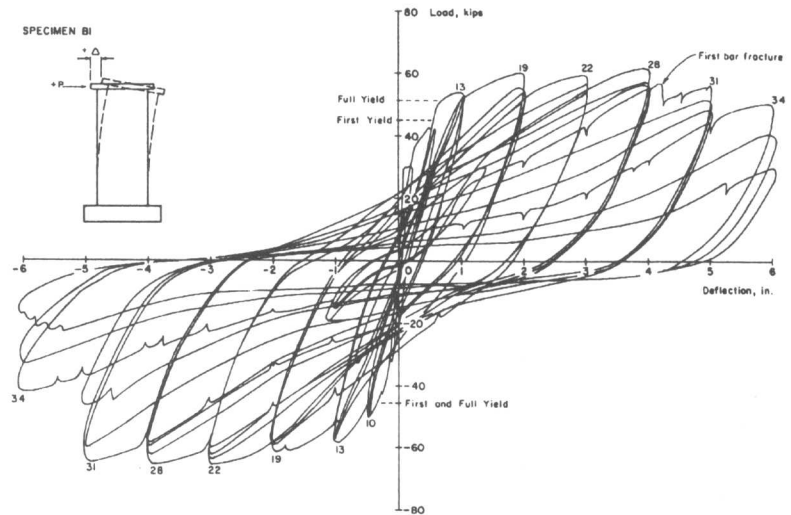
Damage at +3-in. deflection
 $\Delta = 3$ in $\Delta/h_w = 0.017$ $\lambda_Q = 1.0$



Buckled reinforcement after Load Cycle 30
 $\Delta = 4$ in $\Delta/h_w = 0.022$ $\lambda_Q = 0.9$



Damage during Load Cycle 34
 $\Delta = 6$ in $\Delta/h_w = 0.033$ $\lambda_Q = 0.6$



Load versus deflection relationship

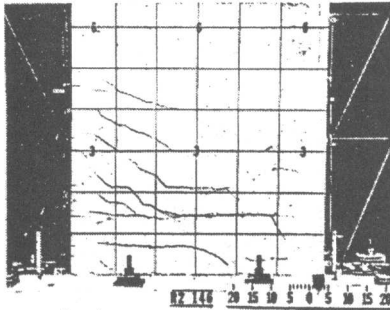
DAMAGE PATTERNS AND HYSTERETIC RESPONSE

System: Reinforced Concrete
 Component Type: Isolated Wall or Stronger Wall Pier
 Predominant Behavior Mode: Flexure/Out-of-Plane Wall Buckling
 Secondary Behavior Mode: —

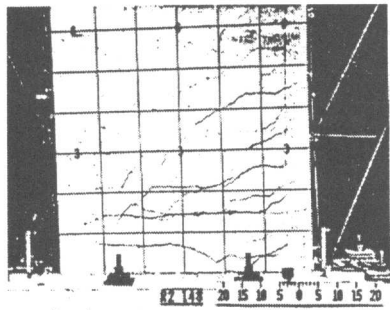
RC1G

Example 1 of 2

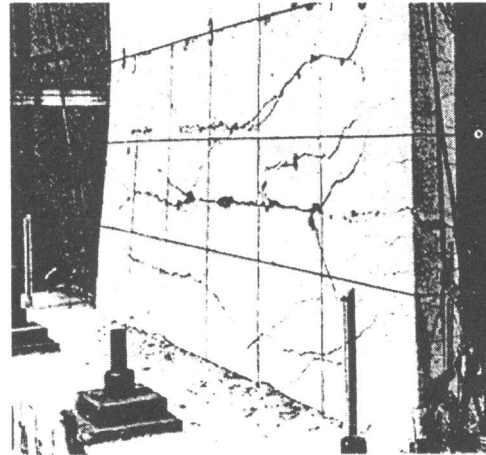
Reference: Corley, Fioralo, Oesterle (1981), Oesterle et al. (1976), Oesterle et al. (1979)
 Specimen: R2



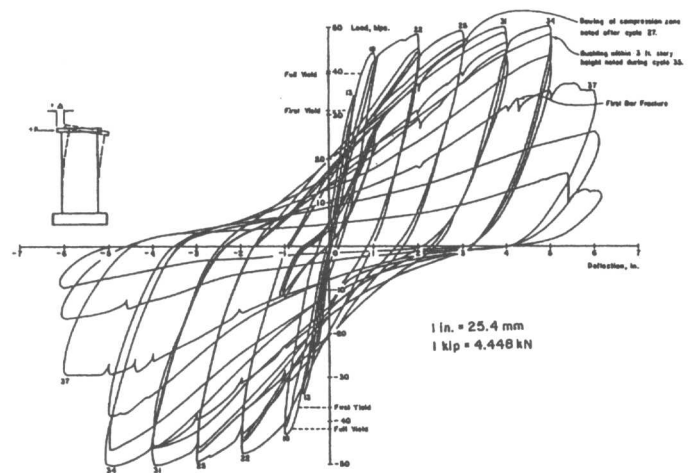
Cracking pattern at +3 in. deflection for Specimen R2



Cracking pattern at -3 in. deflection for Specimen R2



Inelastic instability of compression zone



Continuous load-deflection plot for Specimen R2